

Kaufman

1646

# 22

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/878,168BDATE: 02/14/2000  
TIME: 13:41:40

Input Set: H878168B.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

P.S

ENTERED

1 <110> APPLICANT: Ashkenazi, Avi J.  
2 Baker, Kevin  
3 Gurney, Austin  
4 Wood, William  
5 <120> TITLE OF INVENTION: Apo-2DcR  
6 <130> FILE REFERENCE: P1110  
7 <140> CURRENT APPLICATION NUMBER: US/08/878,168B  
8 <141> CURRENT FILING DATE: 1997-06-18  
9 <160> NUMBER OF SEQ ID NOS: 17  
10 <210> SEQ ID NO 1  
11 <211> LENGTH: 259  
12 <212> TYPE: PRT  
13 <213> ORGANISM: Homo sapiens  
14 <400> SEQUENCE: 1  
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16 1 5 10 15  
17 Ala Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg  
18 20 25 30  
19 Gln Glu Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln Arg  
20 35 40 45  
21 His Ser Phe Lys Gly Glu Glu Cys Pro Ala Gly Ser His Arg Ser  
22 50 55 60  
23 Glu His Thr Gly Ala Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr  
24 65 70 75  
25 Thr Asn Ala Ser Asn Asn Glu Pro Ser Cys Phe Pro Cys Thr Val  
26 80 85 90  
27 Cys Lys Ser Asp Gln Lys His Lys Ser Ser Cys Thr Met Thr Arg  
28 95 100 105  
29 Asp Thr Val Cys Gln Cys Lys Glu Gly Thr Phe Arg Asn Glu Asn  
30 110 115 120  
31 Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu  
32 125 130 135  
33 Val Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln Cys Val  
34 140 145 150  
35 Glu Glu Phe Gly Ala Asn Ala Thr Val Glu Thr Pro Ala Ala Glu  
36 155 160 165  
37 Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu  
38 170 175 180  
39 Glu Thr Met Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu  
40 185 190 195  
41 Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu  
42 200 205 210  
43 Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu  
44 215 220 225

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# RAW SEQUENCE LISTING PATENT APPLICATION US/08/878,168B

DATE: 02/14/2000  
TIME: 13:41:40

Input Set: H878168B.RAW

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45      Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Ser Ser His Tyr
46                      230                      235                      240
47      Leu Ser Cys Thr Ile Val Gly Ile Ile Val Leu Ile Val Leu Leu
48                      245                      250                      255
49      Ile Val Phe Val
50                      259
51      <210> SEQ ID NO 2
52      <211> LENGTH: 1180
53      <212> TYPE: DNA
54      <213> ORGANISM: Homo sapiens
55      <220> FEATURE:
56      <221> NAME/KEY: CDS
57      <222> LOCATION: (193) . . . (969)
58      <223> OTHER INFORMATION:
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61      atttttggga gtttgaccag agatgcaagg ggtgaaggag cgcttcctac 100
62      cgttagggaa ctctggggac agagcgcccc ggccgctga tggccgaggc 150
63      aggggtgcgac ccaggaccca ggacggcgctc gggaaccata cc atg 195
64                                          Met
65                                          1
66      gcc cgg atc ccc aag acc cta aag ttc gtc gtc gtc atc 234
67      Ala Arg Ile Pro Lys Thr Leu Lys Phe Val Val Val Ile
68                      5                      10
69      gtc gcg gtc ctg ctg cca gtc cta gct tac tct gcc acc 273
70      Val Ala Val Leu Leu Pro Val Leu Ala Tyr Ser Ala Thr
71      15                      20                      25
72      act gcc cgg cag gag gaa gtt ccc cag cag aca gtg gcc 312
73      Thr Ala Arg Gln Glu Glu Val Pro Gln Gln Thr Val Ala
74      30                      35                      40
75      cca cag caa cag agg cac agc ttc aag ggg gag gag tgt 351
76      Pro Gln Gln Gln Arg His Ser Phe Lys Gly Glu Glu Cys
77      45                      50
78      cca gca gga tct cat aga tca gaa cat act gga gcc tgt 390
79      Pro Ala Gly Ser His Arg Ser Glu His Thr Gly Ala Cys
80      55                      60                      65
81      aac ccg tgc aca gag ggt gtg gat tac acc aac gct tcc 429
82      Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser
83      70                      75
84      aac aat gaa cct tct tgc ttc cca tgt aca gtt tgt aaa 468
85      Asn Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys
86      80                      85                      90
87      tca gat caa aaa cat aaa agt tcc tgc acc atg acc aga 507
88      Ser Asp Gln Lys His Lys Ser Ser Cys Thr Met Thr Arg
89      95                      100                      105
90      gac aca gtg tgt cag tgt aaa gaa ggc acc ttc cgg aat 546
91      Asp Thr Val Cys Gln Cys Lys Glu Gly Thr Phe Arg Asn
92      110                      115
93      gaa aac tcc cca gag atg tgc cgg aag tgt agc agg tgc 585
94      Glu Asn Ser Pro Glu Met Cys Arg Lys Cys Ser Arg Cys

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/878,168B

DATE: 02/14/2000  
TIME: 13:41:40

Input Set: H878168B.RAW

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95          120          125          130
96      cct agt ggg gaa gtc caa gtc agt aat tgt acg tcc tgg 624
97      Pro Ser Gly Glu Val Gln Val Ser Asn Cys Thr Ser Trp
98          135          140
99      gat gat atc cag tgt gtt gaa gaa ttt ggt gcc aat gcc 663
100     Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala Asn Ala
101     145          150          155
102     act gtg gaa acc cca gct gct gaa gag aca atg aac acc 702
103     Thr Val Glu Thr Pro Ala Ala Glu Glu Thr Met Asn Thr
104          160          165          170
105     agc ccg ggg act cct gcc cca gct gct gaa gag aca atg 741
106     Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met
107          175          180
108     aac acc agc cca ggg act cct gcc cca gct gct gaa gag 780
109     Asn Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu
110          185          190          195
111     aca atg acc acc agc ccg ggg act cct gcc cca gct gct 819
112     Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro Ala Ala
113          200          205
114     gaa gag aca atg acc acc agc ccg ggg act cct gcc cca 858
115     Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro Ala Pro
116     210          215          220
117     gct gct gaa gag aca atg acc acc agc ccg ggg act cct 897
118     Ala Ala Glu Glu Thr Met Thr Thr Ser Pro Gly Thr Pro
119          225          230          235
120     gcc tct tct cat tac ctc tca tgc acc atc gta ggg atc 936
121     Ala Ser Ser His Tyr Leu Ser Cys Thr Ile Val Gly Ile
122          240          245
123     ata gtt cta att gtg ctt ctg att gtg ttt gtt t 970
124     Ile Val Leu Ile Val Leu Leu Ile Val Phe Val
125     250          255          259
126     gaaagacttc actgtggaag aaattccttc cttacctgaa aggttcaggt 1020
127     aggcgctggc tgagggcggg gggcgctgga cactctctgc cctgcctccc 1070
128     tctgctgtgt tcccacagac agaaacgcct gccctgccc caaaaaaaaaa 1120
129     aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1170
130     aaaaaaaaaa 1180
131     <210> SEQ ID NO 3
132     <211> LENGTH: 299
133     <212> TYPE: PRT
134     <213> ORGANISM: Homo sapiens
135     <400> SEQUENCE: 3
136     Met Gln Gly Val Lys Glu Arg Phe Leu Pro Leu Gly Asn Ser Gly
137     1          5          10          15
138     Asp Arg Ala Pro Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro
139          20          25          30
140     Arg Thr Gln Asp Gly Val Gly Asn His Thr Met Ala Arg Ile Pro
141          35          40          45
142     Lys Thr Leu Lys Phe Val Val Val Ile Val Ala Val Leu Leu Pro
143          50          55          60
144     Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln Glu Glu Val Pro

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/878,168B

DATE: 02/14/2000  
TIME: 13:41:40

Input Set: H878168B.RAW

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145          65          70          75
146      Gln Gln Thr Val Ala Pro Gln Gln Gln Arg His Ser Phe Lys Gly
147          80          85          90
148      Glu Glu Cys Pro Ala Gly Ser His Arg Ser Glu His Thr Gly Ala
149          95          100          105
150      Cys Asn Pro Cys Thr Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn
151          110          115          120
152      Asn Glu Pro Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln
153          125          130          135
154      Lys His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys Gln
155          140          145          150
156      Cys Lys Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro Glu Met Cys
157          155          160          165
158      Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu Val Gln Val Ser Asn
159          170          175          180
160      Cys Thr Ser Trp Asp Asp Ile Gln Cys Val Glu Glu Phe Gly Ala
161          185          190          195
162      Asn Ala Thr Val Glu Thr Pro Ala Ala Glu Glu Thr Met Asn Thr
163          200          205          210
164      Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Asn Thr
165          215          220          225
166      Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr
167          230          235          240
168      Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr
169          245          250          255
170      Ser Pro Gly Thr Pro Ala Pro Ala Ala Glu Glu Thr Met Thr Thr
171          260          265          270
172      Ser Pro Gly Thr Pro Ala Ser Ser His Tyr Leu Ser Cys Thr Ile
173          275          280          285
174      Val Gly Ile Ile Val Leu Ile Val Leu Leu Ile Val Phe Val
175          290          295          299
176      <210> SEQ ID NO 4
177      <211> LENGTH: 1180
178      <212> TYPE: DNA
179      <213> ORGANISM: Homo sapiens
180      <220> FEATURE:
181      <221> NAME/KEY: CDS
182      <222> LOCATION: (73) . . . (969)
183      <223> OTHER INFORMATION:
184      <220> FEATURE:
185      <221> NAME/KEY: sig_peptide
186      <222> LOCATION: (73) . . . (194)
187      <223> OTHER INFORMATION:
188      <400> SEQUENCE: 4
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190      atttttggga gtttgaccag ag      atg caa ggg gtg aag gag 90
191                      Met Gln Gly Val Lys Glu
192                      -40                      -35
193      cgc ttc cta ccg tta ggg aac tct ggg gac aga gcg ccc 129
194      Arg Phe Leu Pro Leu Gly Asn Ser Gly Asp Arg Ala Pro

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**RAW SEQUENCE LISTING**  
**PATENT APPLICATION US/08/878,168B**

 DATE: 02/14/2000  
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Input Set: H878168B.RAW

195		-30		-25	
196	cgg ccg cct gat ggc cga ggc agg gtg cga ccc agg acc	168			
197	Arg Pro Pro Asp Gly Arg Gly Arg Val Arg Pro Arg Thr				
198	-20	-15	-10		
199	cag gac ggc gtc ggg aac cat acc atg gcc cgg atc ccc	207			
200	Gln Asp Gly Val Gly Asn His Thr Met Ala Arg Ile Pro				
201	-5	1	5		
202	aag acc cta aag ttc gtc gtc gtc atc gtc gcg gtc ctg	246			
203	Lys Thr Leu Lys Phe Val Val Val Ile Val Ala Val Leu				
204	10	15			
205	ctg cca gtc cta gct tac tct gcc acc act gcc cgg cag	285			
206	Leu Pro Val Leu Ala Tyr Ser Ala Thr Thr Ala Arg Gln				
207	20	25	30		
208	gag gaa gtt ccc cag cag aca gtg gcc cca cag caa cag	324			
209	Glu Glu Val Pro Gln Gln Thr Val Ala Pro Gln Gln Gln				
210	35	40			
211	agg cac agc ttc aag ggg gag gag tgt cca gca gga tct	363			
212	Arg His Ser Phe Lys Gly Glu Glu Cys Pro Ala Gly Ser				
213	45	50	55		
214	cat aga tca gaa cat act gga gcc tgt aac ccg tgc aca	402			
215	His Arg Ser Glu His Thr Gly Ala Cys Asn Pro Cys Thr				
216	60	65	70		
217	gag ggt gtg gat tac acc aac gct tcc aac aat gaa cct	441			
218	Glu Gly Val Asp Tyr Thr Asn Ala Ser Asn Asn Glu Pro				
219	75	80			
220	tct tgc ttc cca tgt aca gtt tgt aaa tca gat caa aaa	480			
221	Ser Cys Phe Pro Cys Thr Val Cys Lys Ser Asp Gln Lys				
222	85	90	95		
223	cat aaa agt tcc tgc acc atg acc aga gac aca gtg tgt	519			
224	His Lys Ser Ser Cys Thr Met Thr Arg Asp Thr Val Cys				
225	100	105			
226	cag tgt aaa gaa ggc acc ttc cgg aat gaa aac tcc cca	558			
227	Gln Cys Lys Glu Gly Thr Phe Arg Asn Glu Asn Ser Pro				
228	110	115	120		
229	gag atg tgc cgg aag tgt agc agg tgc cct agt ggg gaa	597			
230	Glu Met Cys Arg Lys Cys Ser Arg Cys Pro Ser Gly Glu				
231	125	130	135		
232	gtc caa gtc agt aat tgt acg tcc tgg gat gat atc cag	636			
233	Val Gln Val Ser Asn Cys Thr Ser Trp Asp Asp Ile Gln				
234	140	145			
235	tgt gtt gaa gaa ttt ggt gcc aat gcc act gtg gaa acc	675			
236	Cys Val Glu Glu Phe Gly Ala Asn Ala Thr Val Glu Thr				
237	150	155	160		
238	cca gct gct gaa gag aca atg aac acc agc ccg ggg act	714			
239	Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro Gly Thr				
240	165	170			
241	cct gcc cca gct gct gaa gag aca atg aac acc agc cca	753			
242	Pro Ala Pro Ala Ala Glu Glu Thr Met Asn Thr Ser Pro				
243	175	180	185		
244	ggg act cct gcc cca gct gct gaa gag aca atg acc acc	792			

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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VERIFICATION SUMMARY  
PATENT APPLICATION US/08/878,168B

DATE: 02/14/2000  
TIME: 13:41:40

Input Set: H878168B.RAW

Line ? Error/Warning

Original Text

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423 W "N" or "Xaa" used: Feature required

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Ala Asp Ser Ala Xaa Ser